

WE CLAIM:

1. A wide-range pipe repair clamp for temporary or permanent repair of pipes, comprising:
 - a) a metal clamping band to surround said pipe, said band being extended at both ends to form a hollow shape including a flat base, a wedge-shaped section and a convex rounded section, elongated apertures being provided to allow passage for screw fasteners through said hollow shape, narrow edges of said wedge-shaped sections being in contact with each other to form a substantially triangularly shaped space between said formed ends;
 - b) a flexible inner sealing sleeve disposed inside said clamping band;
 - c) a pair of profile strips each having a major face for contacting the outer surface of said convex rounded section, and an opposite seating face for shoulder support of a plurality of screw fasteners, said strips having apertures to allow passage of said fasteners, said profile strips sliding over said convex rounded section when said fasteners are tightened or loosened to maintain said seating face perpendicular to the axes of said fasteners; and
 - d) said plurality of screw fasteners inserted into said apertures wherein the tightening of said screw fasteners reduces the size of said triangularly shaped space and tightens said metal clamping band to compress said flexible inner sleeve sealingly against the outer diameter of said pipes.
2. The wide-range pipe clamp as claimed in claim 1, wherein said hollow shape being formed at both ends of said band is filled with a crush-resistant material.
3. The wide-range pipe repair clamp as claimed in claim 1, wherein said major face of said profile strips for contacting the outer surface of said convex rounded section is concave to match the curvature of said convex rounded section.
4. The wide-range pipe repair clamp as claimed in claim 1, wherein said screw fasteners are provided with a non-circular neck adjacent to the fastener head, to deform its aperture in said profile strip and to prevent said screw fastener from revolving about its own axis.

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5. The wide-range pipe repair clamp as claimed in claim 1, wherein the band and the tightening arrangement are integral.